AMENDMENTS TO THE CLAIMS

1. (Currently amended) A frame data compensation amount output device taking one frame for a target frame out of frames contained in an image signal to be inputted, the frame data compensation amount output device comprising:

first compensation amount output means for outputting a first compensation amount to compensate data corresponding to said target frame based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame; and

second compensation amount output means for outputting a second compensation amount to compensate a specific data detected based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame;

~~wherein the frame data compensation amount output device outputs, corresponding to said specific data, any of said first compensation amount, said second compensation amount and~~ a third compensation amount that is generated based on said first compensation amount and said second compensation amount and compensates data corresponding to said target frame~~.~~;

flicker interference detection means that detects flicker interference based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame,

wherein the frame data compensation amount output device outputs any of said first compensation amount, said second compensation amount and a third compensation amount that is generated based on said first compensation amount and said second compensation amount and compensates data corresponding to degree of said flicker interference included in said target frame.

2. (Canceled)

3. (Original) The frame data compensation amount output device according to claim 1, wherein said first compensation amount output means is preliminarily provided with a data table consisting of compensation amount to compensate data corresponding to the target frame, and said first compensation amount output means outputs a compensation amount to compensate data

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corresponding to said target frame as a first compensation amount from the data table based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame.

4. (Original) The frame data compensation amount output device according to claim 1, wherein said first compensation amount output means outputs a compensation amount to compensate data corresponding to number of gradations of said target frame as a first compensation amount.

5. (Original) The frame data compensation amount output device according to claim 1, wherein said second compensation amount output means is preliminarily provided with a data table consisting of compensation amount to compensate specific data detected based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame, and outputs a compensation amount to compensate data corresponding to said specific data as a second compensation amount from said data table.

6. (Original) The frame data compensation amount output device according to claim 1, wherein said second compensation amount is a compensation amount to compensate data corresponding to number of gradations out of the specific data detected based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame.

7. (Previously Presented) A frame data compensation amount output device comprising:

a vertical edge detection device taking one frame for a target frame out of frames consisting of plural horizontal lines in an image signal to be inputted, and including: first horizontal direction pixel data averaging means that outputs first averaged data obtained by averaging data corresponding to continuous pixels on a horizontal line of said target frame; and second horizontal direction pixel data averaging means that outputs second averaged data obtained by averaging data corresponding to continuous pixels on a horizontal line before said

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horizontal line of said target frame by one horizontal scan time period; wherein a vertical edge in said target frame is detected based on said first averaged data outputted from said first horizontal direction pixel data averaging means and said second averaged data outputted from said second horizontal direction pixel data averaging means;

a vertical edge level signal output device including the vertical edge detection device as defined above, wherein a vertical edge level signal detected by said vertical edge detection device is outputted;

means for outputting a first compensation amount to compensate data corresponding to said target frame based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame; and

means for outputting a second compensation amount to compensate data corresponding to a vertical edge in said target frame based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame

wherein the frame data compensation amount output device outputs, corresponding to a vertical edge detection signal outputted from said vertical edge detection signal output device, any of said first compensation amount, said second compensation amount and a third compensation amount that is generated based on said first compensation amount and said second compensation amount and compensates data corresponding to said target frame.

8. (Original) The frame data compensation amount output device according to claim 7, wherein said vertical edge level signal output device includes gradation number signal output means for outputting a target frame gradation number signal base on halftone data corresponding to halftone of number of gradations within a range capable of being displayed by display means in accordance with an image signal to be inputted, and data corresponding to number of gradations of the target frame; and

a vertical edge level signal is outputted based on first averaged data, second averaged data and a signal of number of gradations of said target frame outputted from said gradation number signal output means.

9. (Original) The frame data compensation amount output device according to claim 7, wherein said first compensation amount output means is preliminarily provided with a data table consisting of compensation amount to compensate data corresponding to the target frame, and said first compensation amount output means outputs a compensation amount to compensate data corresponding to said target frame as a first compensation amount from the data table based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame.

10. (Original) The frame data compensation amount output device according to claim 7, wherein said first compensation amount output means outputs a compensation amount to compensate data corresponding to number of gradations of said target frame as a first compensation amount.

11. (Original) The frame data compensation amount output device according to claim 7, wherein said second compensation amount output means is preliminarily provided with a data table consisting of compensation amount to compensate data corresponding to a vertical edge in the target frame, and outputs a compensation amount to compensate said specific data as a second compensation amount from said data table based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame.

12. (Original) The frame data compensation amount output device according to claim 7, wherein said second compensation amount is a compensation amount to compensate data corresponding to number of gradations out of the data corresponding to the vertical edge in the target frame.

13. (Original) The frame data compensation amount output device according to claim 1, further comprising recording means for recording data corresponding to a frame contained in an image signal to be inputted.

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14. (Original) The frame data compensation amount output device according to claim 1, further comprising encoding means for encoding data corresponding to a frame contained in an image signal to be inputted.

15. (Original) The frame data compensation amount output device according to claim 14, further comprising decoding means for decoding data corresponding to a frame encoded by the encoding means.

16. (Original) A frame data compensation device comprising the frame data compensation amount output device as defined in claim 1;

wherein the frame data compensation device outputs any of said first compensation amount, said second compensation amount and a third compensation amount that is generated based on said first compensation amount and said second compensation amount and compensates data corresponding to said target frame,

said first compensation amount, said second compensation amount and a third compensation amount being outputted from said frame data compensation amount output device.

17. (Original) A frame data compensation device comprising the frame data compensation amount output device as defined in claim 7;

wherein the frame data compensation device outputs any of said first compensation amount, said second compensation amount and a third compensation amount that is generated based on said first compensation amount and said second compensation amount and compensates data corresponding to said target frame,

said first compensation amount, said second compensation amount and a third compensation amount being outputted from said frame data compensation amount output device.

18. (Original) A frame data display device comprising the frame data compensation device as defined in claim 7, wherein a target frame that has been compensated by said frame

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data compensation device is displayed based on data corresponding to the target frame compensated by said frame date compensation device.

19. (Currently amended) A frame data compensation amount output method taking one frame for a target frame out of frames contained in an image signal to be inputted;, comprising:

~~wherein any of a first compensation amount, a second compensation amount and a third compensation amount is outputted corresponding to specific data;~~ ~~said~~ obtaining a first compensation amount compensating data corresponding to said target frame based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame;

~~said~~ obtaining a second compensation amount compensating said specific data detected based on the data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame; and

~~said~~ obtaining a third compensation amount being generated based on said first compensation amount and said second compensation amount and compensating data corresponding to said target frame~~.~~; and

obtaining flicker interference data detected based on data corresponding to said target frame and the data corresponding to a frame before said target frame by one frame,

wherein any of a first compensation amount, a second compensation amount and a third compensation amount is outputted corresponding to specific data and a degree of detected flicker interference.

20. (Original) A frame data compensation method, wherein data corresponding to a target frame are compensated based on any of a first compensation amount, a second compensation amount and a third compensation amount outputted by the frame data compensation amount output method as defined in claim 19.